

United States Patent and Trademark Office

am

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/666,285	09/19/2003	Albert X. Widmer	YOR920030040US1	7869	
75	90 05/05/2004		EXAM	INER	
Ryan, Mason & Lewis, LLP			WILLIAMS, HOWARD L		
Suite 205 1300 Post Road		ART UNIT	PAPER NUMBER		
	Fairfield, CT 06824			2819	
•		DATE MAILED: 05/05/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

		m
	Application No.	Applicant(s)
Office Assistant Communication	10/666,285	WIDMER, ALBERT X.
Office Action Summary	Examin r	Art Unit
	Howard L. Williams	2819
The MAILING DATE of this communication app Period for Reply	pears n the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period of t	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on This action is FINAL . 2b)⊠ This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) <u>1-27</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-4,6 and 12-27</u> is/are rejected. 7) ⊠ Claim(s) <u>5 and 7-11</u> is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.	
Application Papers		
 9) The specification is objected to by the Examine 10) The drawing(s) filed on 11 December 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11. 	re: a) \square accepted or b) \square object drawing(s) be held in abeyance. Section is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Pri rity under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority document: application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
	•	
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12122003. 	Paper No(s)/Mail Da	

Application No: 10/666,285

Your Reference: YOR920030040US1

Art Unit: 2819

The examiner acknowledges receipt of the Information Disclosure Statement filed 12 December 2003. An initialed copy of the reference citation form should accompany this action.

The drawings filed 11 December 2003 are approved by the examiner.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless – (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 6 and 12-21 are rejected under 35 U.S.C. 102(b) as anticipated by Franaszek et al. (US 4,486,739).

Franaszek discloses a 5B/6B encoder (12; fig. 1) which provides a 6B outptut by appending a sixth bit to the source words (bit i in the abcdei column of Table 1), the default value is presumed to be zero. There are 33 output words or vectors and 33 input words or vectors (claim 3). Of the output words (looking to Table 1 col. 15) fifteen have alternate words or in other words are disparity dependent. The alternate output is complement of the principal (abcdei) column. Of the remaining 18 code words or coded vectors without an entry in the alternate column these have balanced disparity or are disparity independent. Inspection of these 18 code words reveals that they are complements of each other. Thus these disparity independent code words can be described as nine code vectors with one to three selected source bits being complements to produce the other 9, which preserves the disparity balance of these words. The nine output vectors also correspond with nine input vectors; nine is clearly a minority (claims 2 and 3). Claim 4 appears to be readable upon the K.28 row of Table 1, where the control line K in figure 1 is asserted and the output vector has a trailing run of 4. Claim 6 appears to be simply a restatement of the condition of already provided in claim 1. Claim 12 is simply the code conditions of claim 1

Application No: 10/666,285

Your Reference: YOR920030040US1

Art Unit: 2819

recited as method. Franaszek also discloses a 3B/4B encoder, which rounds out the complete 8B/10B encoder. The 3B/4B encoder corresponds with Table II in column 15 and claims 14-20 appear read upon the codes conditions of Franaszek 3B/4B table and description. Claim 21 recites an 8B/10B encoder partitioned into 5B/6B and 3B/4B encoders.

Claims 22-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gleichert et al. (US 5,387,911) in view of Franaszek et al. (US 4,486,739). Gleichert discloses a switchable 8B/10B or 10B/12B encoder. The running disparity is detected and fed back to the input of the encoder block to detect the starting disparity and Glecihart discloses as a sync pattern 110000 010011 and 001111 011100 (clm. 5, col. 8). As Gleichert also discloses that for the 5B/6B code is identical to the 5B/6B code of the Franaszek patent in the other respect and Franaszek teaches the partitioning of the encoder for simplification of the circuitry it would have been obvious to apply a two 5B/6B encoder partition parallel input over the 5B/6B sequential nibble input taught by Gleichert to improve the byte throughput for 10B/12B operation.

Claims 5 and 7-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Widmer (US 6,496,540 B1) discloses a plurality of partitioned 10B/12B encoders.

Any inquiry concerning this communication should be directed to Howard L. Williams at telephone number 571-272-1815.

4/29/04

Howard L. Williams Primary Examiner Art Unit 2819